IGS Audio

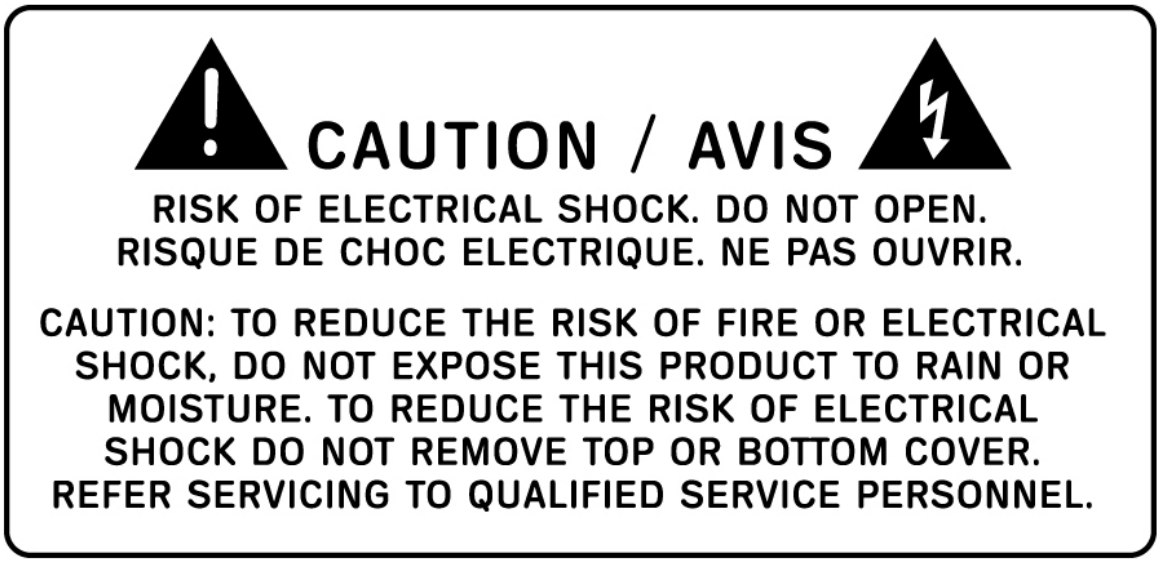
1176

Limiting Amplifier

User's Manual.

Description

The 1176 is a very well known and appreciated compressor in professional recording studios all over the world. Whoever heard how this compressor works with vocals will never be able to manage without one. It is a 45dB transistor amplifier equipped with a remarkable limiter. Compression is achieved with the FET controlled transistor. The unique feature of the unit is the implementation of traditional BC107B transistors known well from the original circuit. That's right! They may cause noise – but this is what gives the sound its power. At extreme settings the 1176 adds some pleasant distortion to the output. The core of versatility in sound of the 1176 lies in the balance between the Input, Output, and Release knobs. It is a pure A class circuit.


CAUTION / AVIS
RISK OF ELECTRICAL SHOCK. DO NOT OPEN.
RISQUE DE CHOC ELECTRIQUE. NE PAS OUVRIR.
CAUTION: TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRICAL SHOCK DO NOT REMOVE TOP OR BOTTOM COVER.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Front panel

1. Input knob (-60dB to 0dB): manipulates input saturation (NOTE: Threshold level is fixed)
2. Output knob (-60 dB to 0dB): manipulates output level
3. Attack knob (20 to 800 us): adjusts response time (fastest when set to 7)
4. Release knob (50 to 1100 ms): adjusts release time (fastest when set to 7)
5. Ratio switch (4:1, 8:1, 12:1, 20:1): sets compression ratio
6. Slam switch: imitates "all buttons on" function
7. Ultra fast dB reduction/VU meter
8. Monitor switch (Bypass, GR, VU): Selects meter display option between Gain Reduction and Volume Unit. Bypass disables compression path only, leaving the amplifier path active.
9. Power indicator
10. Power switch

Rear Panel

From left to right:

1. Power socket 230V AC 50Hz-60Hz
2. Fuse 315 mA Slow Blow
3. Identification plate
4. Output
5. Input

Getting started

1. Connect the 1176 to your sound interface (one input and one output) with two symmetrical XLR wires
2. Send your desired audio file to the selected output
3. Activate the selected input channel on your local mixer
4. Set the Input knob to about 18, Output knob to about 18
5. Set attack to about 3
6. Set release to about 6
7. Set Ratio to 4:1
8. Switch Slam off (down position)
9. Set Monitor switch to GR
10. Switch on the 1176
11. Wait for about 1 minute to let the parameters stabilize
12. Play sound from your source
13. Turn the Input knob until the compression is satisfying
14. Turn the Output knob until the audio volume is right
15. If you need harder compression set the Ratio to a higher setting

16. To control transients turn the Attack knob
17. If you're looking for aggressive compression based on fast release, turn your Release knob clockwise
18. Remember that the Bypass switch is not a hard wire bypass

Typical usage:

- Great vocal compressor
- Good for compressing instruments (guitar, bass, mono synth)
- Work well with single drum tracks and samples

Till this day no better vocal compressor has been designed! This is a professional device. Best results are achieved when recordings are made with a good microphone and low noise preamp.

Notice

1. No manipulation inside the device by any unauthorized person is allowed.
2. If you want to mount your device on a rack, then you may remove the four rubber stands from under the device.

Specification:

- 1 balanced XLR Line Input
- 1 balanced XLR Output
- +4dB operating level
- Maximum Output +29 dBV
- Gain reduction up to 20dB
- Max Gain 45dB
- Output impedance 600 Ohm
- Pure class A audio path
- Input balanced by High quality audio Op Amp
- Output transformer – Edcor 1:1
- Frequency response 20Hz to 20kHz; +/- 0.3dB
- Precise analog scales
- Ultra fast VU meters
- Internal power supply
- Mains consumption 35 Watts
- 230V/110V Power option
- Shipping weight 6 kg

Warranty

Warrants this device to be free from defects in material and workmanship for a period of three years. Any device found defective within three years from the delivery date and returned to the factory with transportation charges prepaid will be repaired, adjusted, or replaced at no charge to the original purchaser. This warranty does not cover expendable items such as tubes or fuses. If the defect has been caused by a misuse or abnormal operation conditions, the repair will be billed at a nominal cost